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CLAIMS:

Claim 1

A<sub>1</sub> A rotor of an electric motor to be arranged inside a stator  
for generating a revolving magnetic field, comprising: a  
5 permanent magnet formed in a ring shape; a rotating shaft  
arranged at a center of said permanent magnet; and a cushioning  
member made of rubber material having predetermined hardness,  
vulcanized and molded between said permanent magnet and said  
rotating shaft, characterized in that said permanent magnet and  
10 said rotating shaft are integrally coupled through said  
cushioning member.

Claim 2

The rotor of an electric motor according to claim  
15 characterized in that on an inner peripheral surface of said  
permanent magnet, there is formed a protruded portion which  
enters said cushioning member as an anchor.

Claim 3

20 The rotor of an electric motor according to claim 2,  
characterized in that said plurality of protruded portions are  
provided at predetermined intervals circumferentially on an  
inner peripheral surface of said permanent magnet.

Claim 4

A1 The rotor of an electric motor according to claim 2,  
characterized in that said protruded portions are formed in a  
series of flange shape circumferentially on an inner peripheral  
5 surface of said permanent magnet.

Claim 5

(Amended) The rotor of an electric motor according to [any  
of] claim[s] 1 [to 4], characterized in that joining of said  
10 permanent magnet and said rotating shaft to said cushioning  
member is further reinforced with adhesive.

Claim 6

(Amended) The rotor of an electric motor according to [any  
15 of] claim[s] 1 [to 4], characterized in that joining of said  
rotating shaft and said cushioning member is further reinforced  
by baking means.

Claim 7

20 (Amended) The rotor of an electric motor according to [any  
of] claim[s] 1 [to 6], characterized in that said cushioning  
member is provided with displacement absorbing means for  
absorbing displacement of said cushioning member.

Claim 8

A The rotor of an electric motor according to claim 7,  
characterized in that said displacement absorbing means consists  
of a plurality of through-holes formed in said cushioning member  
5 in parallel to said rotating shaft.

Claim 9

The rotor of an electric motor according to claim 7,  
characterized in that said displacement absorbing means consists  
10 of a plurality of recesses formed on both surfaces of said  
cushioning member.

Claim 10

(Amended) The rotor of an electric motor according to [any  
15 of] claim[s] 1 [to 10], characterized in that said cushioning  
member is chloroprene rubber.

Claim 11

A method for manufacturing a rotor of an electric motor to  
20 be arranged inside a stator for generating a revolving magnetic  
field, comprising the steps of: after a permanent magnet formed  
in a ring-shape in advance and a rotating shaft are  
concentrically arranged within a metal mold, pouring rubber

material in fluid state into space between said permanent magnet  
and said rotating shaft to vulcanize and mold a cushioning  
member having predetermined hardness, and integrally coupling  
said permanent magnet and said rotating shaft through said  
5 cushioning member.

Claim 12

The method for manufacturing a rotor of an electric motor  
according to claim 11, characterized in that said permanent  
10 magnet is made of plastic magnet, and when said cushioning  
member is vulcanized and molded within space between said  
permanent magnet and said rotating shaft, the molding  
temperature is controlled to be equal to or less than  
temperature at which said plastic magnet does not become  
15 deformed.

Claim 13

(Amended) The method for manufacturing a rotor of an  
electric motor according to claim 11 [or 12], characterized in  
20 that prior to vulcanizing and molding of said cushioning member,  
both an inner peripheral surface of said permanent magnet and  
said rotating shaft, or either of them is coated with adhesive.

Claim 14

A (Amended) The method for manufacturing a rotor of an electric motor according to claim 11, [12 or 13,] characterized in that after vulcanizing and molding of said cushioning member, 5 a joined portion between said rotating shaft and said cushioning member is further baked.

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